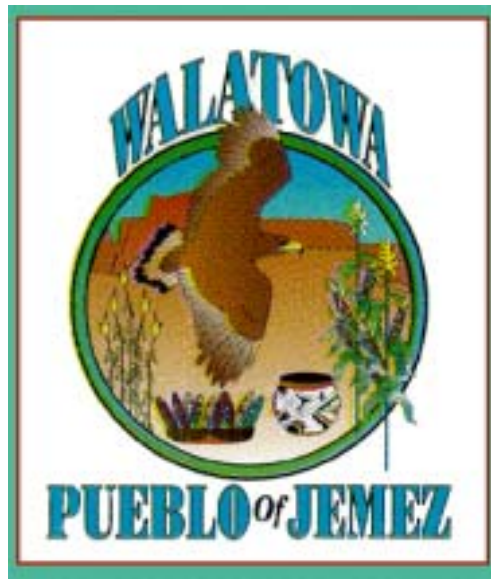


# **Renewable Tribal Energy Program**

## **October 1, 2002**

### **Denver, Colorado**

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**Pueblo of Jemez**  
**Office of the Governor**  
**PO Box 100**  
**Jemez Pueblo, NM 87024**  
**(505) 834-7359**

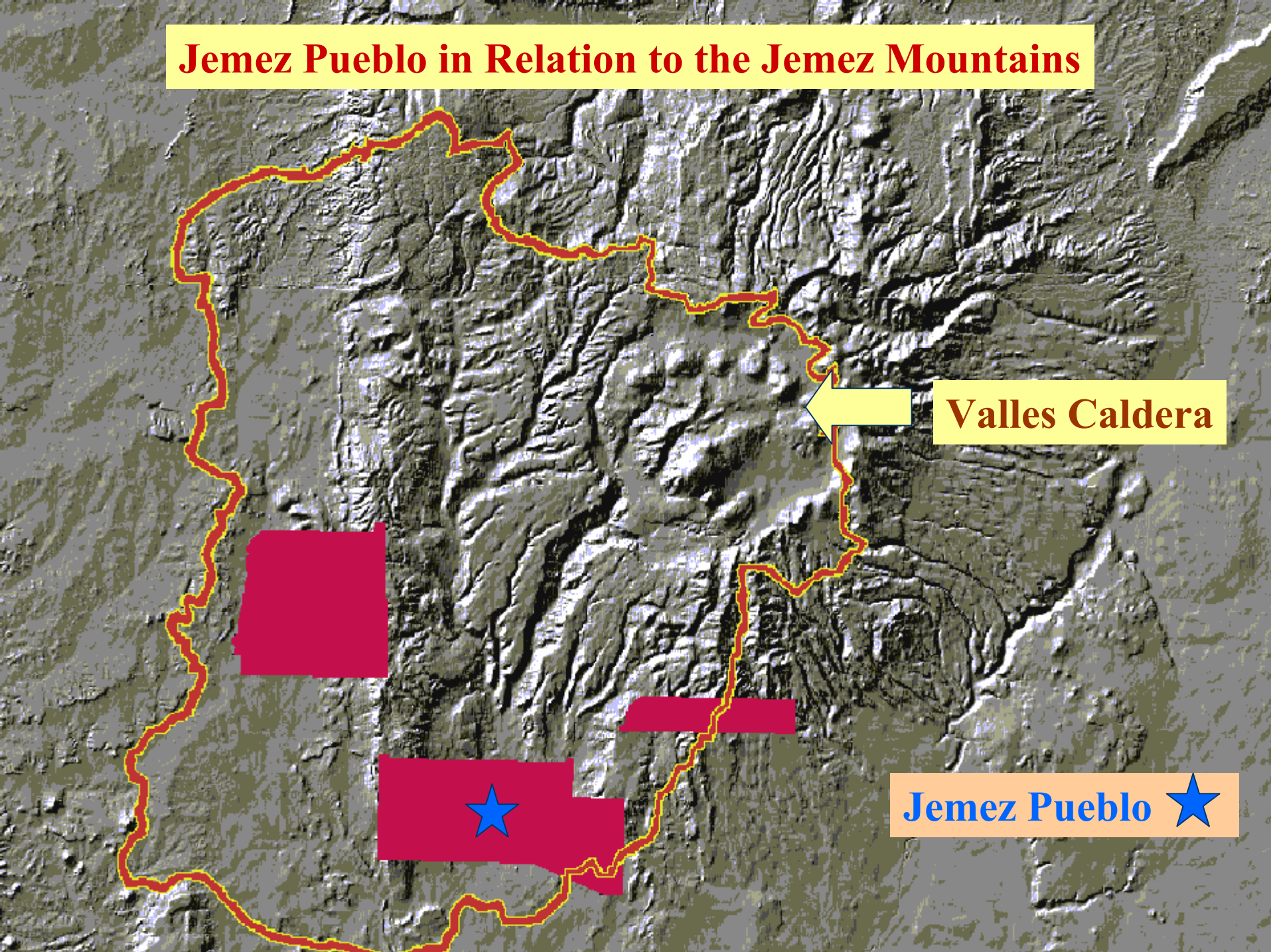
# Pueblo of Jemez Geothermal Resources



## BACKGROUND

- Jemez Pueblo Tribal Trust Lands located at SW foothills of the Jemez Mountains
- Jemez Mountains are volcanic in origin
- Geologic fault systems connected to geothermal springs and reservoirs
  - Jemez Fault, Nacimiento,

# Jemez Pueblo in Relation to the Jemez Mountains



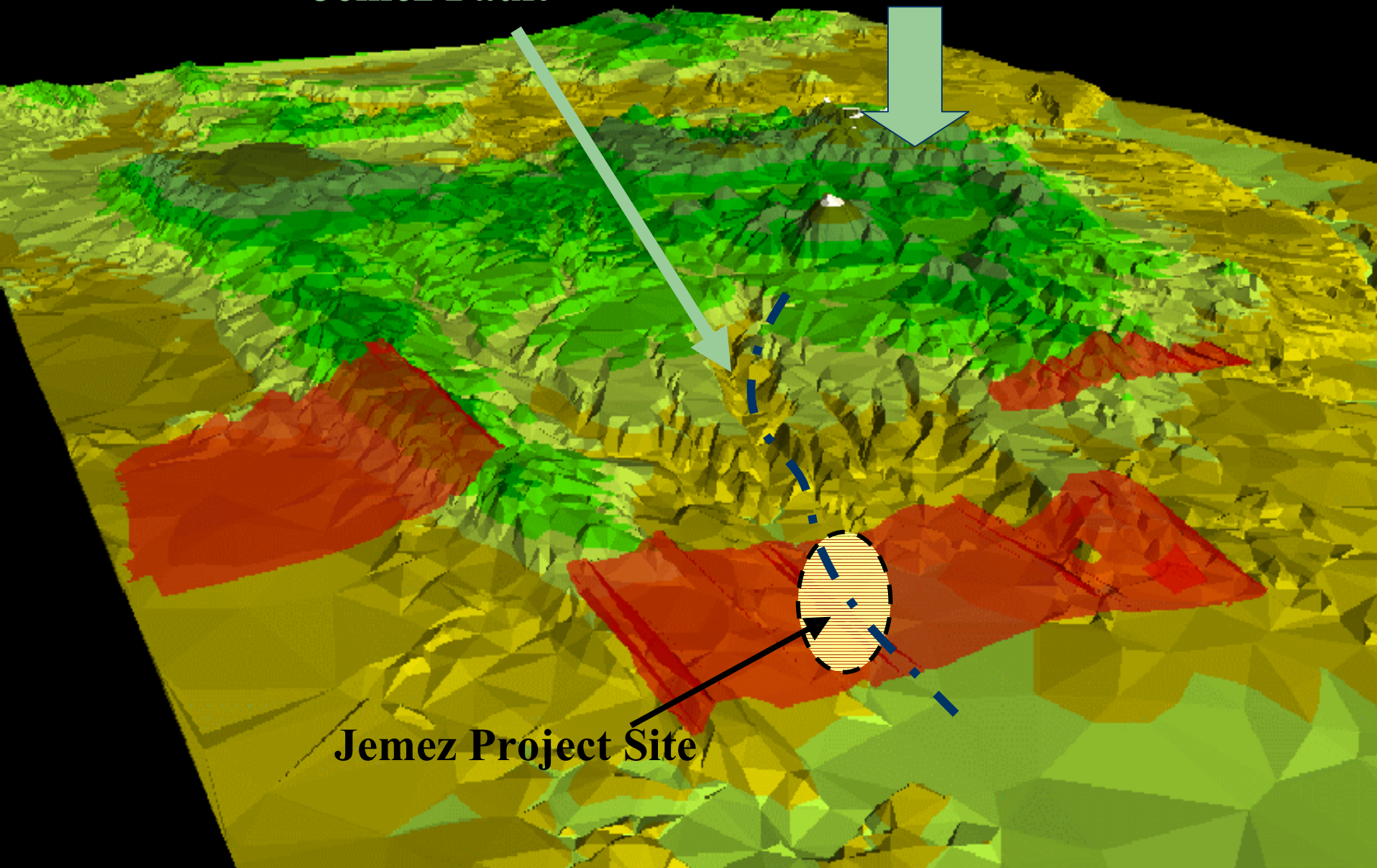
Valles Caldera

Jemez Pueblo ★

**Jemez Fault**

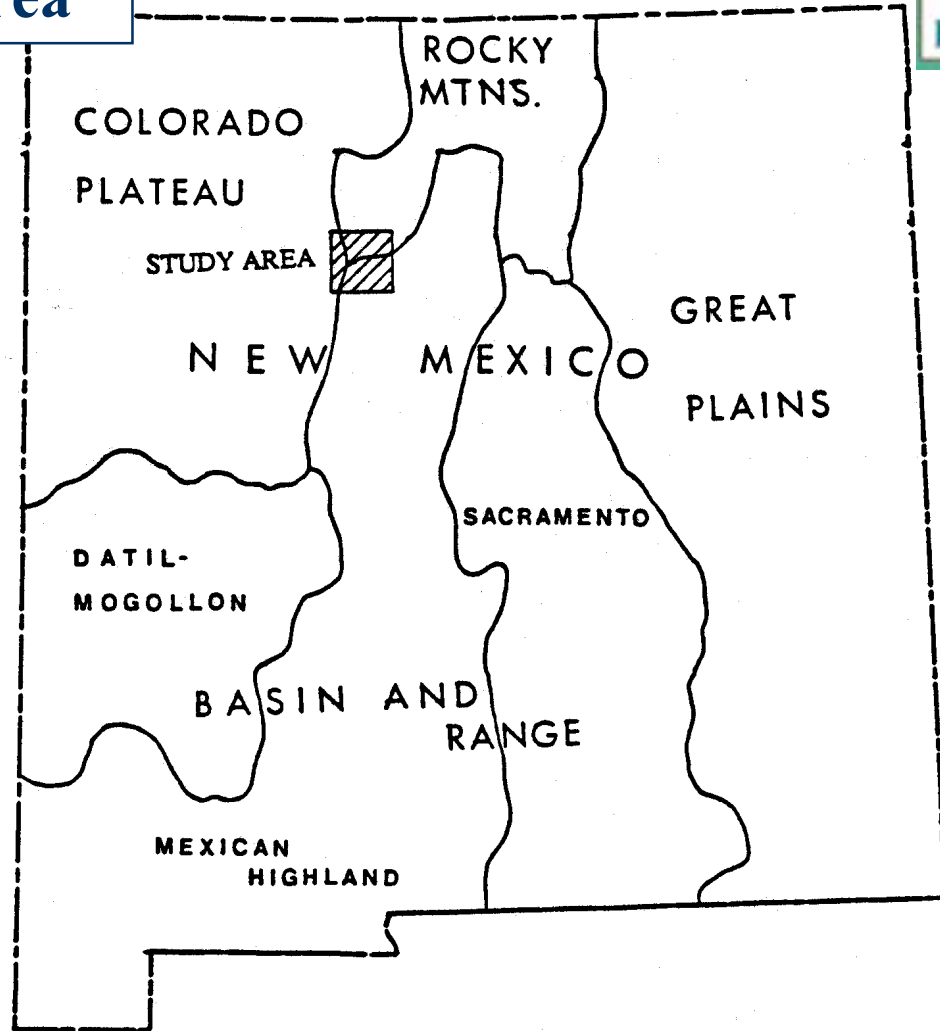
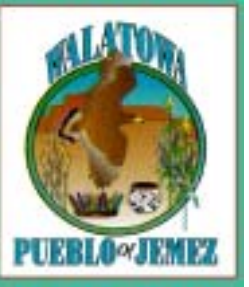
**Valles Caldera**

**Jemez Project Site**

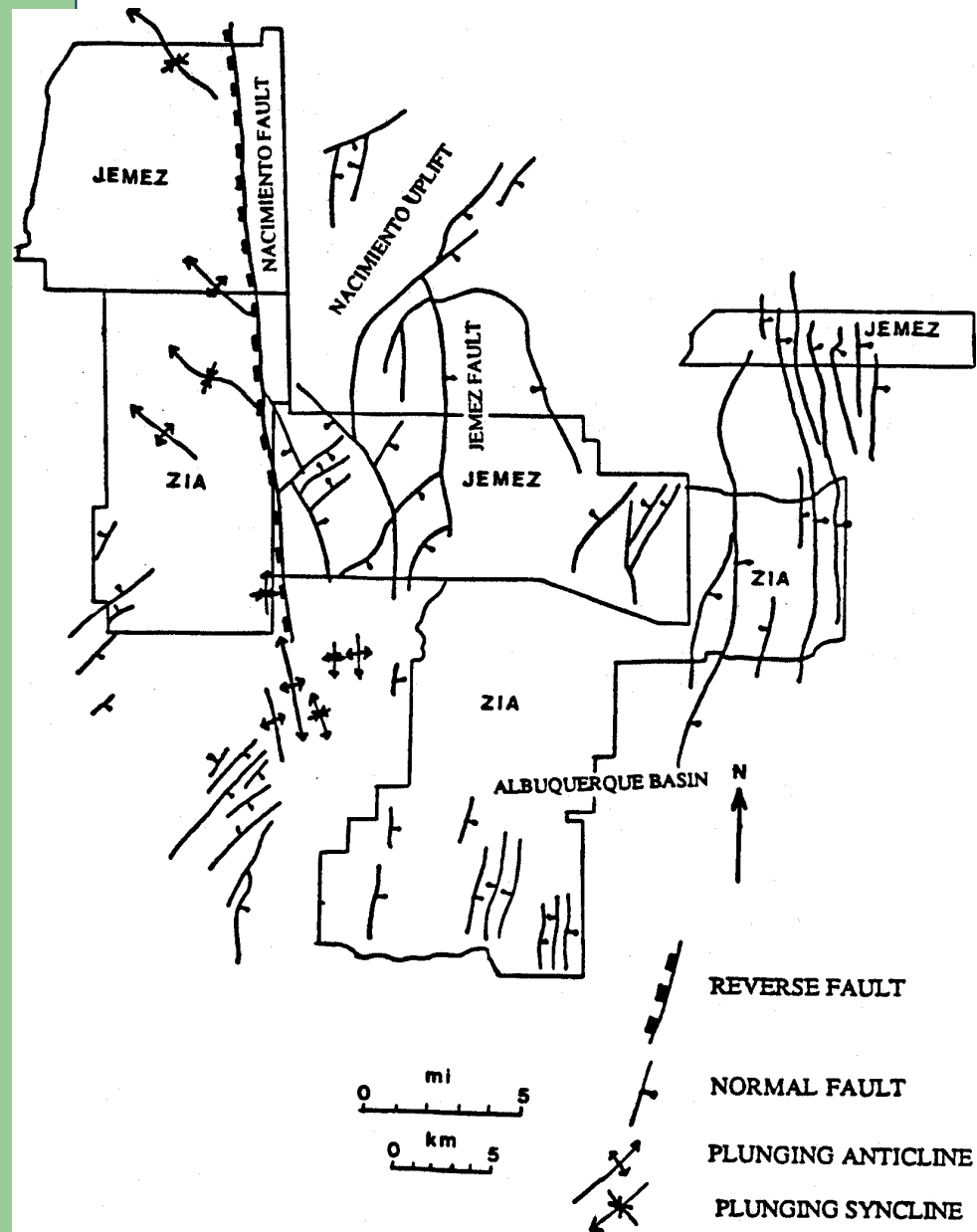


# Pueblo of Jemez

## Geothermal Study Area



# Tectonic Map of the Jemez Pueblo Region



# Jemez Geothermal Resources

## “What We Currently Know”



- Indian Springs
  - Artesian spring
  - Jemez Fault
  - 51-78°C (124-172°F)
  - 150 gpm
  - 240 ft. well: 1991 Installed
- NMSU Feasibility Study 1992

# 2002 Jemez Geothermal Assessment & Feasibility Study



## Project Objectives

The focus of this proposal is to evaluate the business opportunity to develop low-temperature geothermal resources on Jemez Pueblo. Specific objectives are as follows:

- **Resource Assessment:** Consolidate prior geothermal exploration efforts, conduct additional assessment activities and identify site of production and disposal wells
- **Business Assessment:** Assess specific business opportunities that utilize low-temperature geothermal resources as a catalyst including commercial greenhouses, aquaculture, spa and a kiln for wood drying.
- **Develop Business Plan:** Produce a comprehensive business plan for Jemez Pueblo to present to public and private investors.
- **Outreach:** Conduct and document site visits to well-established geothermal commercial facilities within New Mexico and the southwest.
- **Education:** Educate Jemez tribal leaders and decision makers about the costs and benefits of geothermal resource development.



# Technical Project Partners

- Resource Assessment Activities
  - New Mexico State University: Jim Witcher
- Business Plan Development
  - McNeil Technologies: Jack Whittier
- Miscellaneous Technical Assistance
  - Sandia National Laboratory: Roger Hill
    - MOU Development in Progress: Lawrence Brown

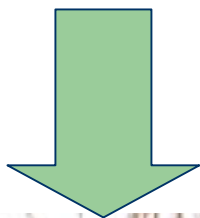
**Alex Masson Greenhouse**

**Radium Springs, NM**



**Burgett Geothermal Greenhouses**

**Anima, NM**



**AmeriCulture  
Tilapia Aquaculture  
Animas, NM**



**NMSU Incubator Greenhouse**  
USFW Rio Grande  
Silvery Minnow Project





# Pueblo of Jemez Contacts

- **Office of the Governor**

- Governor Paul Tosa: (505) 834-7359
- 1<sup>st</sup> Lt. Governor Benny Shendo Jr.
- 2<sup>nd</sup> Lt. Governor Warren Casiquito

- **Tribal Administration**

- Vincent Toya: Tribal Administrator
  - (505) 834-7696 or [vtoya@jemezpueblo.org](mailto:vtoya@jemezpueblo.org)

- **Department of Resource Protection**

- Mehrdad Khatibi: [mkhaitib@jemezpueblo-drp.org](mailto:mkhaitib@jemezpueblo-drp.org)

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